MAR 2 2015

WV Department of mental Protection

DATE: January 30, 2015

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

Farm name	: Buster and Ollie	Stowers	Operator	Well No.:	804626 P&A
Location:	Elevation: District: Latitude: Longitude:	1087' Duval 38.159969 -81.914816	Quadran County:		Griffithsville, WV 7.5' Lincoln
Well Type:	OIL GAS	x			
	Chesapeake Appal P.O. Box 18496 Oklahoma City, OK	73154	Coal Operator or Owner Coal Operator	500 Lee St Charleston Horse Cree	reet Éast, Suite 900 , WV 25301 ek Coal Land
•	Jessica Greathouse ed Date: January 1		or Owner		Street, Suite 1503 , WV 25301
	od Date. Dandary 1	0, 2010			
County of	OF WEST VIRGINIA		AFFIDAVIT		
experienced operator, as	d in the work of plund in the participated in the second contracts and the second contracts are second contracts are second contracts and the second contracts are second contracts are second contracts and the second contracts are second contracts and s	igging and filling oil he work of pluggi	and gas wells ng and filling	and were en the above	law depose and say that they are imployed by the above named well well say that said work was difilled in the following manner:
TYPE	FROM	TO	PIPE RI	EMOVED	LEFT
Cement	1900'	1650'	3 1/2" tubing 1		3 ½" – 1910'-2441' = 331'
Gel	1650'	1022'	7" cut at 102:	2'	7" - 1022'-1733' = 711'
Cement	1022'	847'			
Gel	847'	510'			
Cement	510'	410'			
Gel	410'	300'			
Cement	300'	150'			
Gel	150'	125'			
Cement	125'	0'		_	
plugging an	on of monument: 7" d filling said well wa er deponents saith r	s completed on the not. Roy R			lded on tag and that the work of
	nd subscribe before mission expires: Se 		of Febru a. Orplu	1anj_,2	Official Sant Hotory Public State of West Virgin's Phyllis A. Copley 144 Willard Circle Hurricans, WY 25528 My Continued on Expinee September 16, 2018
Affidavit rev	iewed by the Office	of Oil and Gas	nsport	or O	OFFICE OF OIL and Gas

Environ Gonal Police to a

DATE: January 22, 2015

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

Farm name	: Huntington Dev	& Gas	Operator	Well No.:	805553 P&A	
Location:	Elevation: District: Latitude: Longitude:	1100' Laurel Hill 38.1859 -82.162	Quadran County:	gle:	Branchland Lincoln	
Well Type:	OIL GAS	x				
Company:	Chesapeake Appal P.O. Box 18496 Oklahoma City, OK		Coal Operator or Owner Coal Operator	800 Prince	as Land Corporation eton Avenue WV 24701	
Agent:	Jessica Greathouse)	or Owner			
Permit Issu	ed Date: Decembe	17, 2014				
CTATE			AFFIDAVIT			
	OF WEST VIRGINIA of Lincoln	.				
experience	d in the work of plu Ind participated in t	gging and filling one work of plugg	il and gas wells ing and filling	and were of the above	to law depose and say that temployed by the above name well say that said worplugged and filled in the fo	ned well rk was
TYPE	FROM	ТО	PIPE R	EMOVED	LEFT	
Cavings	3445'	1825'				
Cement	1825'	1820'				
Gel	1820'	1730'				
Cement	1730'	1400'	4 1/2" - 1325'		1826'-1325' = 501' left	
Gel	1400'	1320'	7" – 785'		Cut holes in 7" at 1299 1278'. 1505'-785' = 72 7" left in well	
Cement	1320'	1220'				
Gel	1220'	800'				
Cement	800'	700'				
Gel	700'	360'			8 1/4" - 293' - cut holes at 138', 98' and 59'	in 8"
Cement	360'	260'				
Gel	260'	130'				
Cement	130'	Surface			10 ¾" – 16'	
of plugging	on of monument: 4 and filling said well well well well well well well wel	vas completed on not		December,	welded on tag and that the 2014.	work
		Robb	rie film Robbie Johnson	<u></u>		izi Sesi Notery Putrilo eta of West Virginia
	nd subscribe before		ay of <u>Jebru</u>	ouj_	2015 144 Willard	Circle Hurricane, WY 25528 Commission Expires eptember 16, 2018
My com	mission expires: Se	otember 16, 2018 Pullus Notary Public	a. Coplay	<u>, </u>		** · · · **
		Hotaly MubilC			Office "	
Affidavit rev	viewed by the Office	of Oil and Gas				•
		Title	inspecta	20	06 MA<	*
			•		W to the	

DATE: January 22, 2015

STATE OF WEST VIRGINIA **DEPARTMENT OF ENVIRONMENTAL PROTECTION** OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name	: Huntington Dev	& Gas	Operator	Well No.:	805554 P&A
Location:	Elevation: District: Latitude: Longitude:	785' Laurel Hill 38.1816 -82.1478	Quadran County:	gle:	Branchland Lincoln
Well Type:	OIL GAS	X			
Company:	npany: Chesapeake Appalachia, L.L.C. P.O. Box 18496 Oklahoma City, OK 73154		Coal Operator or Owner Coal Operator	Pocahontas Land Corporation 800 Princeton Avenue Bluefield, WV 24701	
Agent:	Jessica Greathous	e	or Owner		
Permit Issue	ed Date: Decembe	er 22, 2014			
STATE (DE WEST VIDGINI	^	AFFIDAVIT		

WEST VIRGINIA, County of Lincoln

Rodney Greathouse and Robbie Johnson being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 20th day of December, 2014, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cavings	3246'	1838'	560' of 7"	560'-1271' = 711' left in well
Gel	1838'	1800'		
Cement	1800'	1700'	-	
Gel	1700'	1500'		
Cement	1500'	1400'		
Gel	1400'	1320'		
Cement	1320	1220'		
Gel	1220'	575'		
Cement	575'	425' (TOC 350')		
Cement	350'	275'		
Gel	275'	200'	312' of 8 ½"	None
Cement	200'	Surface		10" – 39'

Description of monument: 7" casing with API number, date, well number welded on tag and that the work of plugging and filling said well was completed on the 23rd day of December, 2014.

And further deponents saith not.

nealtons Rodney Greathouse Robbie (Johnson

Sworn and subscribe before me this 24day of

My commission expires: September 16, 2018

Office of Off and Gas MAR 2 2015

Official Seal Notary Public

WV Department of **Environmental Protection**

Affidavit reviewed by the Office of Oil and Gas;

DATE: January 22, 2015

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name	: Central Trust Co	o Mng 27	Operator	Well No.:	806986 P&A
Location:	Elevation: District: Latitude: Longitude:	1349' Kermit-Mingo 37.885 -82.291	Quadran County:	gle:	Wilsondale Mingo
Well Type:	OIL GAS	X			
Company:	Chesapeake Appa P.O. Box 18496 Oklahoma City, Ok	·	Coal Operator or Owner	Consol of Kentucky P.O. Box 76 Naugatuck, WV 2568	
			Coal Operator	Costerma	n Estate Century Bank
Agent:	Jessica Greathous	e	or Owner	P.O. Box	•
Permit Issue	ed Date: October	8, 2014		Didencia,	24701
			455504145		

AFFIDAVIT

STATE OF WEST VIRGINIA, County of Lincoln

Rodney Greathouse and Robbie Johnson being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 12th day of November, 2014, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cavings	3516'	2245'		
Gel	2245'	2209'		
Cement	2209'	2059'		
Gel	2059'	1860'		·
Cement	1860'	1660'	1173' of 7"	1173'-1717' = 544'
Gel	1660'	1173'		
Cement	1173'	1023'		
Gel	1023'	619'		
Cement	619'	500'		
Gel	500'	420'		382' of 10"
Cement	420'	320'		
Gel	320'	228'		
Cement	228'	Surface		

Description of manuments 7° accordant with ADI number date well number wolded on tag and that the work of

plugging and filling said well was completed on the 20th day of November, 2014.	on tag and that the work of
And further deponents saith not. Hodry Gratter	
Rodney Greathouse	· / MYMMANA
Robbie Johnson	Official Soul Notory Public State of West Virginia
Sworn and subscribe before me this 24th day of <u>Jubruary</u> , 2015	Phyllis A. Copley
My commission expires: September 16, 2018	September 16, 2018
Dullis a Ciplus	Office of Oil and Gas
Notary Public	MAR 2 2015
Affidavit reviewed by the Office of Oil and Gas:	
Title: inspector OOG	
	 _

DATE: January 22, 2015

STATE OF WEST VIRGINIA **DEPARTMENT OF ENVIRONMENTAL PROTECTION** OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

_	
Farm	name:
ı aıııı	Heilic.

Cotiga Dev Co 35

Operator Well No.: 808015 P&A

Location:

Elevation: District:

1282' Kermit Quadrangle:

County:

Myrtle Mingo

Latitude:

38.874

Longitude:

-82.2448

Well Type: OIL _____ GAS X

Company:

Agent:

Chesapeake Appalachia, L.L.C.

P.O. Box 18496

Jessica Greathouse

Oklahoma City, OK 73154

Coal Operator

Consol of Kentucky

or Owner

P.O. Box 76 Naugatuck, WV 25685

Coal Operator

Cotiga Development Company

P.O. Box 1956

or Owner

Williamson, WV 25661

Permit Issued Date: April 3, 2014

AFFIDAVIT

STATE OF WEST VIRGINIA, County of Lincoln

Rodney Greathouse and Robbie Johnson being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 1st day of December, 2014, and the well was plugged and filled in the following manner:

TYPE	FROM	ТО	PIPE REMOVED	LEFT
Cavings	3646'	2442'	118' of 7"	7" – 1822' to 118'
Cement	2442'	2059'		Perforated 7" at 800', 700',
Gel	2059'	1400'		330', 280', and 170'
Cement	1400'	1000'		
Gel	1000'	850'		8 5/8" - 357' - ripped holes
Cement	850'	450'		at 102', 70' and 40'
Gel	450'	350'		
Cement	350'	180'		
Cement	170'	Surface		

Description of monument: 7" casing with API number, date, well number welded on tag and that the work of plugging and filling said well was completed on the 16th day of December, 2014.

And further deponents saith not.

Rodney Greathouse

day of

Sworn and subscribe before me this 24 H

Robbie Johnson

My commission expires: September 16, 2018

Official Seal Hotary Public State of West Virginia

Phyllis A. Cobler

rd Circle Hu

Affidavit reviewed by the Office of Oil and Gas;

Title:

HECEIVED Office of Oil and Gas

MAR 2 2015

.... Department of antal Protection

59.01366

DATE: January 22, 2015

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Mingto O&G Co 8

Operator Well No.:

824007 P&A

Location:

Elevation:

1100'

Quadrangle:

Myrtle

District: Latitude: Hardee

County:

Mingo

Longitude:

37,78058 -82.20872

Agent:

Well Type: OIL ____ GAS X

Company:

Chesapeake Appalachia, L.L.C.

Coal Operator

Delbarton Mining Co.

P.O. Box 18496

Jessica Greathouse

or Owner

P.O. Box 714

Oklahoma City, OK 73154

Matewan, WV 25678 Laurel Run Mining Co

Coal Operator or Owner

1000 Consol Energy Drive Canonsburg, PA 15317

Permit Issued Date: July 1, 2014

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Lincoln

Rodney Greathouse and Robbie Johnson being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 4th day of November, 2014, and the well was plugged and filled in the following manner:

TYPE	FROM	ТО	PIPE REMOVED	LEFT
Cement	4147	4075'		
Cavings	4075'	3796'		
Gel	3796'	3700'		
Cement	3700'	3500'		
Gei	3500'	3000'		
Cement	3000'	2850'	4 1/2" cut at 2615'	4 ½" – 2615'-4121' = 1506'
Gei	2850'	2615'		2150' of 7"
Cement	2615'	2515'		542' of 9 5/8"
Gel	2515'	2190'		40' of 13 3/8"
Cement	2190'	2090'		
Gel	2090'	1875'		
Cement	1875'	1775'		
Gel	1775'	1050'		
Cement	1050'	950'		
Gel	950'	450'		
Cement	450'	350'		
Gel	350'	275'		
Cement	275'	Surface		

Description of monument: 7" casing with API number, date, well number and that the work of plugging and filling said well was completed on the 22nd day of November, 2014.

And further deponents saith not.

Greathouse

Sworn and subscribe before me this

<u>ک</u> day of

My commission expires: September 16, 2018

MAR 2 Zu 5

VAV Department of Englishmental Protection

Official Seal Notary Publi State of West Virginia Phyllis A. Coblev

Affidavit reviewed by the Office of Oil and Gas;

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

Farm name:	Southern L	and Com	pany	perator	Well No.:	SD-5				
LOCATION:	Elevation: 2,	291.18		Ouadra	ngle: Ec	cles				
LOOAHOH.	District: Cl	ear Fork			D~	leigh				
	Latitude: 48			County:	· —	_	00		•	
			Feet South of 3			_		_Sec.		
	Longitude: 9		_ Feet West of 8		eg. <u>15</u>	Min	. 00	Sec.		
Well Type: (OILG	AS <u>×</u>								
Company	ARP Mountaine	er Production,	LLC Coal Ope	rator E	Black King N	Mine Dev	elopment			
	Park Place Cor	porate Center	One or Owner	· <u>F</u>	P.O. Box 27	1 Runnin	g Right Way	1		_
	1000 Commerce Drive	4th Floor, Pittsburg,	PA 15275	<u></u>	ulian WV 2	5529				<u></u>
		_	Coal Ope	erator S	Southern La	nd Comp	any, L.P			_
Agent	Gary Kenne	edy	or Owner	· <u>3</u>	00 Capitol	Street Su	ite 1401			_
Permit Issue	ed Date	12-2-14		<u>c</u>	harleston,	WV 2530	1		Rece	ved
			ΔF	FIDAVIT	г			Off	ice of C	il & Gas
STATE OF W	EST VIRGINIA	•			•				MAR 04	2015
County of Rale	lgh	ss:							man va	2013
			vork of plugging an							
well operator, the 5th	and participate day of Febr	ed in the wor	k of plugging and , 20 <u>15</u> , and the w	filling the	e above w slugged ar	rell say nd filled	that said	work was o	commenced er:	
well operator, the 5th	and participate day of Febr	ed in the work	k of plugging and , 20 <u>15</u> , and the w	filling the	e above wellugged ar	rell say nd filled	that said	work was dwing manne	commenced er:	
well operator, the 5th	and participate day of Febr	ed in the work	k of plugging and , 20 <u>15</u> , and the w	filling the	e above w slugged ar	rell say nd filled	that said	work was o	commenced er:	
well operator, the 5th	and participate day of Febr	ed in the work	k of plugging and , 20 <u>15</u> , and the w	filling the	e above wellugged ar	rell say nd filled	that said	work was dwing manne	commenced er:	
well operator, the TYPE	and participate day of Febr	ed in the work	k of plugging and , 20 <u>15</u> , and the w	filling the	e above walugged are REMOV	rell say nd filled	that said	work was dwing manned LEFT 13-3/8" -	commenced er:	
well operator, the 5th	and participate day of Febr	ed in the work	k of plugging and , 20 <u>15</u> , and the w	filling the	e above wellugged ar	rell say nd filled	that said	work was dwing manned LEFT 13-3/8" -	commenced er: 19'	
well operator, the TYPE	and participate day of Febr	ed in the work	k of plugging and , 20 <u>15</u> , and the w	filling the	e above wellugged ar	rell say nd filled	that said	work was dwing manned LEFT 13-3/8" -	commenced er: 19'	
Description said well was considered with the said well was considered with the said well was considered with the said well was considered well was considered with the said well as the said well was considered with the said well as the said wel	and participate day of Febr FRO 1291 of monument: 2 completed on the	M 2-3/8 x 6' Ere 12-5th da 12-3 n not.	t of plugging and 2015, and the work of Surface Ct Monument with at y of February 2 ** day of February	filling the ell was property tached AF	e above we slugged are REMOV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	vell say	that said in the follo	Work was de wing manne LEFT 13-3/8" - 8.625" - 4.5" - 1	gging and fi	on

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

Farm name:	Crab Orchard	d Coal & Lar	nd Operat	tor Well No.: CC)1-5B		
LOCATION:	Elevation: 226	8.98	Quad	rangle: Eccles	3		
	District: Trap		Coun	D-1-:-	ıh		
	Latitude: 7534		South of 37	.		Sec.	
			t West of 81	Deg. 15	4in 00		
	Longitudo.		t west or	_Deg	VIIII. <u></u>	Sec.	
Nell Type: (OIL GAS	3 X					
Commons	ARP Mountainee	r Production III C					
Company	Park Place Corpor		or Owner	PO Box 49			_
		Floor Pittsburgh, PA 15275	-	Eccles, WV 25836	3		-
			Coal Operator	Crab Orchard Coa		mpany	- .
Agent	Gary Kennedy	1	or Owner	PO Box 443			-
Permit Issu	ed Date 01	/26/2015	-	Charleston, WV 2	5322		
			AFFIDAN	#			_
STATE OF W	EST VIRGINIA,		AFFIDAV	/11			
ounty of Rate	igh ss	•					
eff Cooper		and Roger Laxt				vorn according to law de	
January TYPE	day of 30th FROM		, and the well was	PE REMOVED	ea in the to	LEFT	7
Bentonite/Infusio	n						┪
		See Af	4echment */				
		 -		.,			
							_
		- 			-		
						Received	7
Description (of manument: Partis	d plucoino as per MSI:	iA approved consolidated	ventilation hase elen		Officer of Oil 9 G	
-	completed on the			20 <u>15</u> .	and that ti	Officerpt കി. കു.എ MAR 0 4 20 15	CKY STILL
	_		111 1	-		MAR 0 4 2015 &	NOTARY
And further	deponents saith no	ot	11 (00)	re_			PUBLIC
		Ke.	NY	ar			REG. #718863
		0	The state of			CO	MY COMMISSION EXPIRES
Sworn and s	subscribe before m	ie this <u>10th</u> da	ay of February	20 2015		COMMO	4/30/2016
y commission	expires: 4/30/20)16	Roc	Ky Stilux	<u>ll</u>		WEALTH OF
			4.0	Notary Public	C		
idavit review	ed by the Office of	Oil and Gas: _	Afry Kensu	. leg	Title:	INSpector	

81-014238

Attachment 1 CO 1-5B Actual Plugging Procedure

Rods, tubing and pump were pulled from the hole. The tubing was tallied and run back into the hole to a depth of 889 ft GL, 10 feet above the coal seam.

The original planned jobs volumes for this bentonite treatment were: 545 barrels of fresh water 652 barrels of 2 – 6% bentonite 472 barrels of fresh water

In order to maintain access to the laterals, the vertical portion of the CO 1-5A was not cemented at the time the laterals were treated with bentonite through the CO 1-5B well. Additional volume was added to account for the vertical section of the CO 1-5A. The new volumes which were pumped were:

595 barrels of fresh water 705 barrels of 3 ½% bentonite 483 barrels of fresh water

The maximum tubing pressure was 172 psi with no pressure seen on the annulus.

Rates and pressures were continuously monitored.

Bentonite samples were taken every 15 minutes during pumping.

The fresh water source was analyzed prior to the job.

The CO-15B and CO 1-5A will be left to vent until mining has been complete and then the vertical sections of both wells will be cemented.

Received
Office of Oil & Gas
MAR 0 4 2015

